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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/026,941	12/27/2001	Jung Taeck Yer	049128-5029	7312
9629	7590	03/30/2006	EXAMINER	
MORGAN LEWIS & BOCKIUS LLP 1111 PENNSYLVANIA AVENUE NW WASHINGTON, DC 20004			MAI, ANH T	
			ART UNIT	PAPER NUMBER
			2832	
DATE MAILED: 03/30/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

**-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --**

### Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

## Status

- 1) ☒ Responsive to communication(s) filed on 09 March 2006.  
2a) ☐ This action is **FINAL**. 2b) ☒ This action is non-final.  
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

## Disposition of Claims

- 4) ☒ Claim(s) 1-19 is/are pending in the application.  
4a) Of the above claim(s) 1-9, 18 and 19 is/are withdrawn from consideration.
- 5) ☐ Claim(s) \_\_\_\_\_ is/are allowed.
- 6) ☒ Claim(s) 10-17 is/are rejected.
- 7) ☐ Claim(s) \_\_\_\_\_ is/are objected to.
- 8) ☐ Claim(s) \_\_\_\_\_ are subject to restriction and/or election requirement.

## Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on \_\_\_\_\_ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.  
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).  
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

**Priority under 35 U.S.C. § 119**

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All    b) ☐ Some \*    c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. \_\_\_\_.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- \* See the attached detailed Office action for a list of the certified copies not received.

## Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☒ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☐ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)  
Paper No(s)/Mail Date \_\_\_\_\_.
- 4) ☐ Interview Summary (PTO-413)  
Paper No(s)/Mail Date. \_\_\_\_\_.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: \_\_\_\_\_.

**DETAILED ACTION**

***Claim Rejections - 35 USC § 102***

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

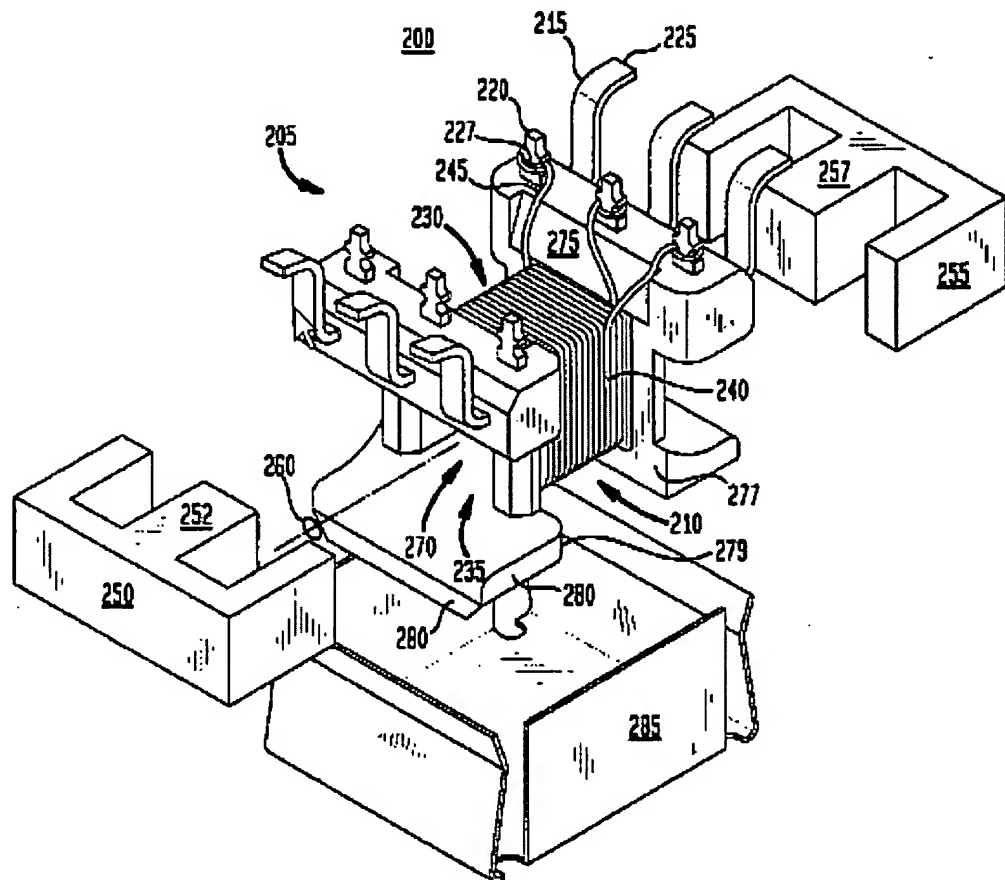
2. Claim 10 is rejected under 35 U.S.C. 102(b) as being anticipated by Banzi Jr. et al. [6326874].

Banzi discloses:

- a bobbin wound with a coil 240 and two E-shaped cores 250, 255 introduced into the bobbin;
- the bobbin provided with a coil winding part having no protrusion member so as to exclude an interference caused by the protrusion member;
- a pair of lead pins 220 each extending from opposing ends of the bobbin along opposing direction parallel to the length of the bobbin;
- the coil is continuously wound from one side of the coil winding part to another side thereof and connected to two lead pins at primary side and a secondary side without using a return wire;

Art Unit: 2832

- the core having centers 252, 257 passing through a center of the bobbin and sidewall portions surrounding sides of the bobbin as shown in figure 2.

**FIG. 2*****Claim Rejections - 35 USC § 103***

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

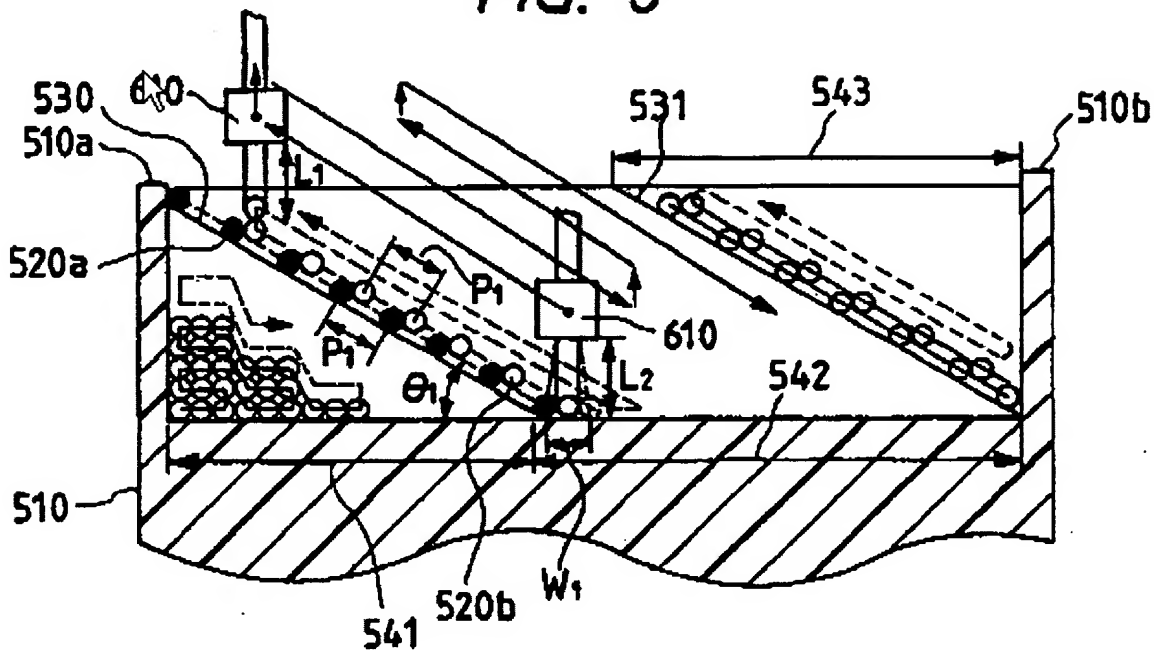
(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Art Unit: 2832

3. Claims 11-12, 14-16 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banzi, Jr. et al. [6329874] in view of Kawano et al.

Banzi discloses the invention as claimed as cited above except for the coil continuously wound from one side of the coil winding part to another side on a zigzag basis in an oblique direction. Kawano discloses the coil continuously wound from one side of the coil winding part 510a to the other side 510b on a zigzag basis in an oblique direction [figure 6, col 11, lines 21-30]. With respect to claim 14, Kawano's winding having winding block wherein the coil is continuously wound from a lower portion to an upper portion such that the coil blocks have a number of winding [see left bottom corner of figure 6]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to wind the coil continuously in zigzag basis from one side to the other as taught by Kawano to the coil as disclosed by Banzi. The motivation would have been to eliminate undesirable excursion of wire rod therefore it becomes possible to prevent deterioration of insulation quality due to winding collapse [col 11, lines 38-44]. Therefore, it would have been obvious to combine Kawano with Banzi.

**FIG. 6**



With respect to claim 12, the coil is continuously wound from one side of the coil winding part to the other side.

With respect to claim 15, the coil is wound from lower portion to upper portion as shown in fig 6.

4. Claims 13, 17 are rejected under 35 U.S.C. 103(a) as being unpatentable over Banzi, Jr. et al. in view of Kawano as applied in claims 12 and 14 above and further in view of Takebuchi [JP10135042A].

Banzi in view of Kawano discloses the invention as claimed as cited above except for the coil is coated with an adhesive so as to prevent collapse during the winding process. Takebuchi discloses an adhesive applied to around the copper line so that winding collapse of coil is prevented [solution]. At the time of the invention, it would have been obvious to a person of ordinary skill in the art to apply adhesive as taught by Takebuchi to the coil as disclosed by

Art Unit: 2832

Banzi in view of Kawano. The motivation would have been to prevent the winding collapsed. Therefore, it would have been obvious to combine Takebuchi with Benzi in view of Takebuchi.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Anh T. Mai whose telephone number is 571-272-1995. The examiner can normally be reached on 5/4/9 Schedule.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Elvin Enad can be reached on 571-272-1990. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

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**ANH MAI  
PRIMARY EXAMINER**